

Title (en)  
EXPANDED POLYSTYRENE PARTICLE HAVING A SKIN LAYER WITH SUPERIOR FORMABILITY, METHOD FOR PRODUCING SAME, AND EXPANDED POLYSTYRENE MOLDED ARTICLE USING SAME

Title (de)  
GEDEHNTE POLYSTYROLPARTIKEL MIT EINER AUSSCHICHT VON ERHÖHTER FORMBARKEIT, VERFAHREN ZU SEINER HERSTELLUNG UND GEDEHNTER POLYSTYROLFORMARTIKEL DARAUS

Title (fr)  
PARTICULE DE POLYSTYRÈNE EXPANSÉ COMPORTANT UNE COUCHE SUPERFICIELLE AYANT UNE FORMABILITÉ SUPÉRIEURE, PROCÉDÉ DE PRODUCTION ASSOCIÉ, ET ARTICLE MOULÉ EN POLYSTYRÈNE EXPANSÉ L'UTILISANT

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Application  
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Priority  
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Abstract (en)  
[origin: EP2428532A2] Disclosed are an expanded polystyrene particle having a skin layer with superior moldability, a method for preparing the same, and an expanded polystyrene molded article using the same. Provided is an expanded polystyrene particle provided on the surface thereof with a skin layer with superior moldability wherein the skin layer contains a binder selected from the group consisting of a thermoplastic resin-based adhesive, a thermosetting resin-based adhesive, an inorganic adhesive, a protein-based adhesive and a mixture thereof, wherein the skin layer further contains methylene diphenyl diisocyanate.

IPC 8 full level  
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CPC (source: EP KR US)  
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Citation (search report)  
• [A] US 2005266244 A1 20051201 - PARK BONG-KUK [KR]  
• [A] US 2008224357 A1 20080918 - ALLMENDINGER MARKUS [DE], et al  
• See references of WO 2010128760A2

Cited by  
EP3819333A1; US9643343B2

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